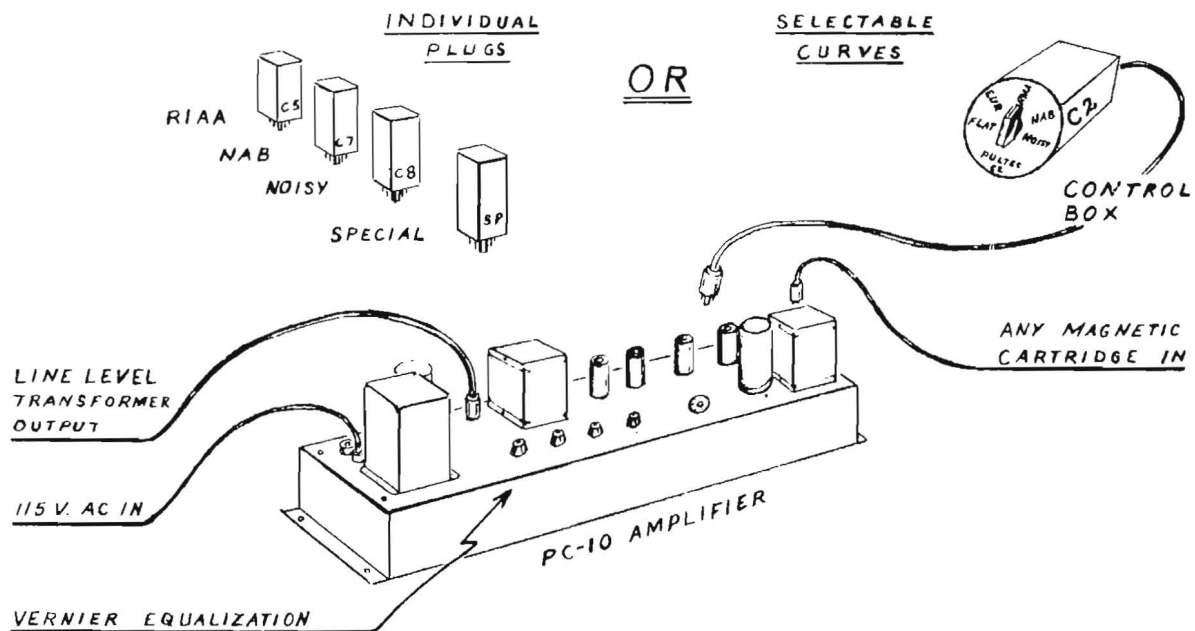


**PULTEC**  
MODEL PC-10  
RECORD COMPENSATING SYSTEM



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**PULTEC**

STANDARD PROGRAM EQUIPMENT

Model EQP-1 Program Equalizer  
Model EQH-2 Program Equalizer  
Model HLF-3 Program & Sound Effects Filter  
Model MB-1 Microphone and Booster Amplifier

CUSTOM TYPE EQUIPMENT

Pre-Emphasis Recording Equalizers - No Loss  
High and Low Level Mixers  
Automatic Stepping Oscillators  
One to Twenty Frequency Oscillators  
Unit Filters and Equalizers

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**PULSE TECHNIQUES, INC.**

1411 PALISADE AVE., WEST ENGLEWOOD, NEW JERSEY

CABLE ADDRESS: PULTEC

TEANECK 7-2575

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**PULTEC**  
**Model PC-10**  
**RECORD COMPENSATING SYSTEM**

The PULTEC Model PC-10 Record Compensating System operates with any magnetic cartridge, either high or low impedance, and provides the necessary amplification, gain control and record compensation curves for the precise reproduction of phonograph records. It provides line level output and has self-contained power supply.

The Model PC-10 has many unusual and valuable features:

- 1- LINE LEVEL OUTPUT from any standard magnetic cartridge such as ESL, Fairchild, G.E., Pickering, etc.
- 2- LOW IMPEDANCE TRANSFORMER OUTPUT (600/300/150/50 ohms) for easy integration into the professional system.
- 3- TRANSFORMER INPUT GAIN PLUS TUBE GAIN before record compensation losses, when using Low Impedance cartridges, to assure maximum signal-to-noise ratio.
- 4- TUBE GAIN before compensation losses, when using High Impedance cartridges, assures maximum signal-to-noise ratio.
- 5- PASSIVE NETWORK to provide record compensation curves (RIAA, NAB, etc.). This network is Accurately Calibrated and is isolated between tube stages, thereby making the curve shape independent of cartridge L-C-R parameters.
- 6- PASSIVE VERNIER EQUALIZATION controls correct for differences between individual cartridges. Low Frequency Boost and Attenuate: 4 db at 30 cps. High Frequency Boost and Attenuate: 5 db at 10 kcs.
- 7- Available with either:
  - (a) CONTROL BOX having 5 compensation curves: FLAT, EUROPEAN, RIAA, NAB, NOISY. 30" plug-in cable.
  - (b) FIXED PLUG-IN COMPENSATOR having one curve. Curve may be any one of the above, or a custom characteristic to your specifications.
- 8- OBSOLESCENCE PROOF:

Cartridge - Change the type of cartridge, including whether high or low impedance, at any time by simply restrapping the input plug to select either transformer input or tube input. The compensation curves do not change, because they are independent of the type of cartridge used.

Compensation Curve - Should the industry standard be changed, or if for any reason a different curve is desired, simply order the required fixed compensator or control box.

- 9- GAIN CONTROL permits adjusting the output to the exact level desired.
- 10- POWER SUPPLY is self contained.
- 11- DISTORTION -- 0.5% at plus 20 dbm into 600 ohms.
- 12- FREQUENCY RESPONSE --  $\pm 1$  db from 30 cps to 20 kcs;  
-2 db at 20 cps.
- 13- NOISE at output is more than 60 db below +10 dbm with RIAA compensation and gain set to give +10 dbm from RCA 12-5-49 LP Test Record.

#### DESCRIPTION OF CURVES

The FLAT curve provides an RIAA response below 1000 cps and flat frequency response above 1000 cps.

The EUROPEAN curve provides a 250 cps turnover on the low end and 6 db of attenuation at 10 kcs on the high end.

The RIAA curve is officially defined by the Record Industry Association of America, Inc. It also is accepted as the NARTB standard, and is identical to the AES standard.

The NAB curve is the lateral curve plotted as Fig. 2 in "NARTB Recording and Reproducing Standards" as adopted 1942 and amended April 1949 and June 1950.

The NOISY curve provides an RIAA response below 2500 cps. The high end is sharply attenuated above 3500 cps.

When used in conjunction with the Model PC-10 Record Compensating Amplifier, the RIAA and NAB playback curves introduced by the C2 Control Box will deviate less than  $\pm 1$  db from the official curves at any point.

The gain of the system at 1000 cps will vary less than  $\pm 1$  db as the selector switch is operated from RIAA to any other position.

#### DIMENSIONS

PC-10 AMPLIFIER Chassis - including Power Supply and Vernier Equalization. 17" long x 5" deep x 6" high.

Can be supplied as 5 $\frac{1}{4}$ " x 19" rack mount. Price on request.

C2 CONTROL BOX 2 $\frac{1}{2}$ " x 3" x 5 $\frac{1}{4}$ " high.

3 $\frac{1}{4}$ " diameter engraved dial. 30" cable and plug.

C4 thru C9 COMPENSATOR 1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x 3 $\frac{1}{2}$ " high.



A partial list of users of PULTEC Program Equipment:

Atlantic Records	Langlois Filmusic
Audiosphere, Inc.	London Records
Audio-Video Recording Co.	Mercury Records
Badie Films	MGM Records
Calvin Company	Moss Recording Studios
Capitol Records	Movielab Theatre Service
CBS Radio	Nat'l Assoc Educ B'dcstrs
Cinesound, Ltd.	NBC - TV
Circle Record Co.	Olmstead Sound Studio
Coastal Recording Studios	Radio Recorders
Columbia Records	RCA Victor
Columbia University	RKO-Pathe
Concert Hall Society	RKO-Unique
Cuban Plastics & Record Corp.	Societe Francaise Du Son
Decca Records	University of Michigan
Dumont Broadcasting Corp.	Universal Recording Corp.
EMC Recording Corp.	U.S. Information Agency
Empirical Recording	U.S. Naval Schl Av. Mdene
Federal Bureau of Investigation	U.S. Recording Co.
Fine Recording	Westminster Records
High Fidelity Recording Co.	WLS
King Records	Yale University

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PRICES OF MODEL PC-10 RECORD COMPENSATING SYSTEM

<u>MODEL</u>	<u>DESCRIPTION</u>	<u>NET*</u>
PC-10	Record Compensating Amplifier	\$243.50
C2	Control Box - FLAT, EUROPEAN, RIAA, NAB, NOISY	55.00
C4	FLAT Compensator	7.50
C5	RIAA Compensator	7.50
C6	EUROPEAN Compensator	7.50
C7	NAB (old curve) Compensator	7.50
C8	NOISY records Compensator	15.00
C9	VERTICAL Compensator	15.00
Special	Any Special Curve	On request

\* Prices are F.O.B. West Englewood, N.J.

This amplifier is licensed under patents  
of the Western Electric Co.

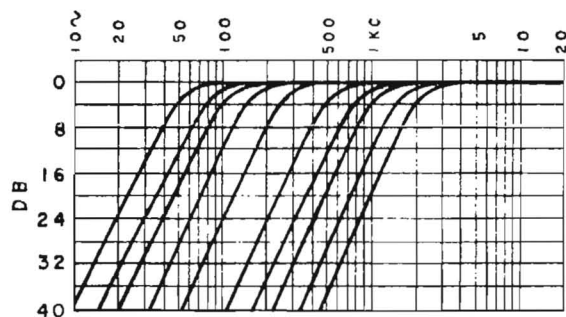
# PROGRAM and SOUND EFFECTS FILTER

PULTEC®

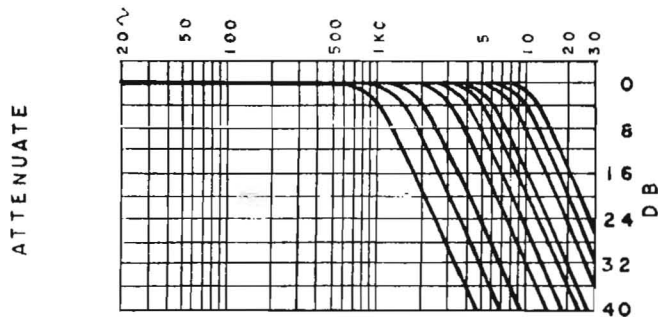


HIGH PASS  
LOW PASS

MODEL HLF-3



LOW CUT-OFF CONTROL



HIGH CUT-OFF CONTROL

The Model HLF-3 is a very wide range Program and Sound Effects Filter. It has been designed specifically as an effective aid in the production of good music and dramatic presentations.

As a Program Filter, the wide range of the Pultec makes it possible to remove rumble and hum as well as hiss and harmonic distortion components with a minimum loss of program content.

As a Sound Effects Filter, the Pultec includes the frequencies that have proven most useful in the past, plus several intermediate frequencies; thus making it ideal for the creation of such effects as telephone conversations, midget radios, sounds from "outer space", etc.

Shielded toroid coils minimize hum pickup. Switches are clickless. An "off" position on each selector switch provides full frequency transmission. A key switch permits pre-set low and high filter selections to be thrown in and out of the circuit on cue.

**LOW CUT-OFF:** Eleven positions—

OFF, 50, 80, 100, 150, 250, 500, 750, 1000, 1500, 2000 cps.

**HIGH CUT-OFF:** Eleven positions—

1, 1.5, 2, 3, 4, 5, 6, 8, 10, 12 kcs and OFF.

**IN-OUT KEY:**

Permits cutting the filter "in" and "out" on cue.

**IMPEDANCE:** 500-600 ohms, input and output.

Space to mount transformers for other impedances.

**INSERTION LOSS:** Zero.

**CIRCUIT:** Constant "K".

**INPUT LEVEL:** Minimum -70 dbm. Maximum +28 dbm.

**POWER REQUIRED:** None.

**DIMENSIONS:** Standard rack panel 3½ x 19 inches.

Depth behind panel 7½ inches.

**PANEL FINISH:** Pultec blue-gray baked enamel. Engraved.

**NET WEIGHT:** 9½ pounds.

**PRICE:** \$232.50 Net.

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